

E7 Energy from foods

Different foods contain different amounts of energy.

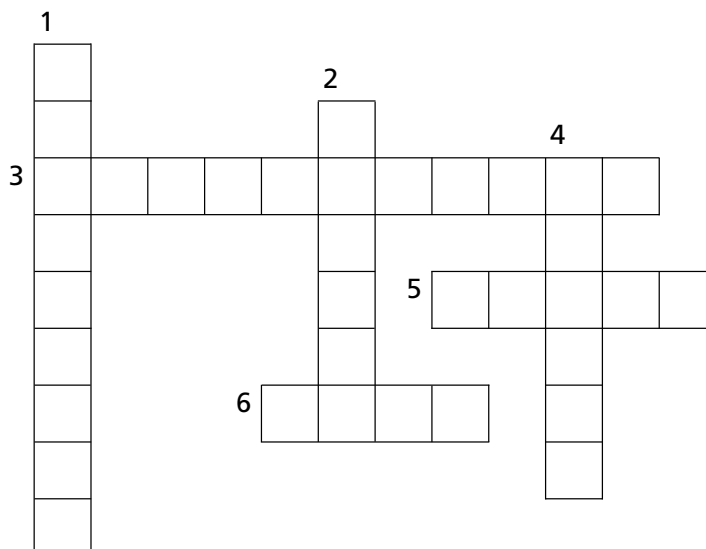
In this experiment you will investigate which food contains the most energy.

- 1 Use a measuring cylinder to put 30 cm³ of water into a boiling tube.
- 2 Secure the boiling tube using a clamp stand.
- 3 Record the temperature of the water.
- 4 Use a mounted needle to pick up the food sample.
- 5 Hold the food sample in the Bunsen burner flame until it begins to burn.
- 6 Move the burning food sample under the boiling tube.
- 7 Record the maximum temperature that the water reaches.
- 8 Repeat for the other food samples.
- 9 Use your results to fill in a table like the one below.

Sample	Starting water temperature (°C)	End water temperature (°C)	Change in water temperature (°C)

- 10 Which food contains the most energy?

Crossword



Clues

across

- 3 Used to measure temperature. (11)
5 When these are burnt they release heat. (5)
6 When food is burnt it releases and light energy. (4)

down

- 1 Foods contains this type of energy. (8)
2 A measuring cylinder is used to measure the of a liquid. (6)
4 Different foods contain different amounts of this. (6)